

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	12	("3993257"   "4889327"   "5240194"   "5243746"   "5392977"   "5477715"   "5865051"   "5105642"   "5713115"   "5875664"   "6588695"   "6470725").PN.	USPAT; USOCR	OR	OFF	2008/09/15 08:46
S2	1	("6301944").PN.	USPAT; USOCR	OR	OFF	2009/04/14 09:47
S3	363	72/135.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 15:26
S4	101	72/79.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 15:27
S5	326	72/142.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 15:27
S6	76	72/143.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 15:27
S7	116	72/144.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 15:27

S8	61	72/135-145.ccls. and torque and (mandrel or spool)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 15:27
S9	67789	((uncoil or uncoiling or spool) same (coupling or free or freely or rotate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 18:31
S10	810	"72"/\$.ccls. and ((uncoil or uncoiling or spool) same (coupling or free or freely or rotate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 18:31
S11	129	"72"/135-145.ccls. and ((uncoil or uncoiling or spool) same (coupling or free or freely or rotate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/14 18:32
S12	5	("3478408").URPN.	USPAT	OR	ON	2009/04/14 18:37
S13	12	("3993257"   "4889327"   "5240194"   "5243746"   "5392977"   "5477715"   "5865051"   "5105642"   "5713115"   "5875664"   "6588695"   "6470725").PN.	USPAT; USOCR	OR	OFF	2009/04/14 21:55
S14	225	72/135-145.ccls. and tension and (mandrel or spool)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/15 09:10
S15	109	72/135-145.ccls. and ((torque or tension) same (reel or spool))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/15 09:10

S16	19	72/135-145.ccls. and ((torque or tension) same ((reel or spool) with (free or freely)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/15 09:13
S17	21	("0716555"   "0915673"   "1504849"   "2165411"   "2592590"   "2649130"   "2758629"   "4130003").PN. OR ("4523447").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/15 09:29
S18	1	("4862720").PN.	USPAT; USOCR	OR	OFF	2009/04/15 09:43
S19	637	((coil or coiling) near2 spring) and ((supply or reel) near2 torque)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/15 09:46
S20	2	"72"/\$.ccls. and ((coil or coiling) near2 spring) and ((supply or reel) near2 torque)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/15 09:46
S21	156	"242"/\$.ccls. and ((coil or coiling) near2 spring) and ((supply or reel) near2 torque)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/15 09:46
S22	1	("4214466").PN.	USPAT; USOCR	OR	OFF	2009/04/15 09:47
S23	1	("6422502").PN.	USPAT; USOCR	OR	OFF	2009/04/15 09:49
S25	0	(55/153633).APP.	JPO	OR	OFF	2009/12/29 13:49
S26	1	"55153633"	JPO	OR	ON	2009/12/29 13:49
S28	101	72/79.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 13:54

S29	505	72/142-144.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 13:55
S30	367	72/135.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 13:55
S31	0	"72"/\$.ccls. and (((coil or coiling) near2 spring) and (((supply or reel or spool) near2 turntable) same (rotate or rotatable or rotating))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 13:57
S32	59	((coil or coiling) near2 spring) and (((supply or reel or spool) near2 turntable) same (rotate or rotatable or rotating))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 13:57
S33	47	((MICHAEL) near2 (DEFRANKS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/29 20:14
S34	4	((MICHAEL) near2 (DIMARCO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/29 20:16
S35	2	((LARRY) near2 (BANKS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/29 20:17
S36	52128	(kawasaki).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:18
S37	71	(kawasaki).INV. and turntable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:18
S38	24	((kawasaki) near2 (masabumi)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:18

S39	5	("2439893").URPN.	USPAT	OR	ON	2009/12/29 20:33
S40	244	((coil or coiling) near2 spring) and (((supply or reel or spool) near2 holder) same (rotate or rotatable or rotating))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:37
S41	5	"72"/\$.ccls. and ((coil or coiling) near2 spring) and (((supply or reel or spool) near2 holder) same (rotate or rotatable or rotating))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:38
S42	122	((coil or coiling) near2 spring) and (((supply or reel or spool) near2 holder) with (rotate or rotatable or rotating))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:41
S43	65	((coil or coiling) near2 spring) and (((supply or reel or spool) near2 holder) near5 (rotate or rotatable or rotating))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/29 20:41
S44	167	242/418.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:22
S46	91	242/420.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:23
S48	334	242/598.3.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:28

S49	109	242/598.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:28
S50	316	242/598.5.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 15:27
S51	251	242/598.4.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 15:27
S52	273	242/592.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 15:28
S53	229	242/564.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 15:28
S54	683	57/59-62.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 15:45
S55	12	("1691103"   "2122911"   "3130536"   "3382314"   "3457718"   "4270341").PN. OR ("4765130").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 16:34
S56	3	("3699647"   "4009561"   "4329539").PN. OR ("4625503").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 16:42

S57	28	("0919309"   "0940231"   "2307821"   "2313618"   "2569612"   "2688837"   "3385046"   "3430429"   "3807159"   "3884025"   "4129468").PN. OR ("4597255").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 16:50
S58	1	("3555803").URPN.	USPAT	OR	ON	2010/08/11 20:21
S59	0	("3340683").URPN.	USPAT	OR	ON	2010/08/11 20:28
S60	1	("187306").URPN.	USPAT	OR	ON	2010/08/11 21:49

## EAST Search History (I nterference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S61	0	((coil or spring) near2 (winder or winding)) and ((reel or spool or wire near2 holder)) with (rotate near2 freely)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/04/27 15:21
S62	33	((coil or spring) near2 (winder or winding)) and (reel or spool or wire near2 holder)) and torque).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/04/27 15:21

4/ 28/ 2011 9:38:51 AM

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